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**MALOISEL, Jean-Luc** [FR/SE]; Amersham Biosciences  
AB, Björkgatan 30, S-751 84 Uppsala (SE).

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(74) Agents: **AMERSHAM BIOSCIENCES** et al.; Patents  
Department, Björkgatan 30, S-751 84 Uppsala (SE).

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(71) Applicant (for all designated States except US): **AMER-  
SHAM BIOSCIENCES AB** [SE/SE]; Björkgatan 30,  
S-751 84 Uppsala (SE).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): **BERGSTRÖM,**  
Jan [SE/SE]; Amersham Biosciences AB, Björkgatan  
30, S-751 84 Uppsala (SE). **GLAD, Gunnar** [SE/SE];  
Amersham Biosciences AB, Björkgatan 30, S-751 84  
Uppsala (SE). **JOHANSSON, Bo-Lennart** [SE/SE];  
Amersham Biosciences AB, Björkgatan 30, S-751 84  
Uppsala (SE). **LJUNGLÖF, Anders** [SE/SE]; Amersham  
Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE).

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(54) Title: NOVEL SEPARATION MATRIX

(57) Abstract: The present invention relates to a separation matrix comprised of ligands coupled to the surfaces of a porous support, such as one or more porous particles, wherein the ligands provide at least one chemical gradient within the support. In the most advantageous embodiment, the chemical gradient is a ligand density gradient. The invention also relates to a method of providing a separation matrix comprising ligands coupled to the surfaces of a porous support, in which method at least one ligand density gradient is provided by solvent-controlled diffusion of at least one reagent into the porous support.

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